T3/Oat tutorials

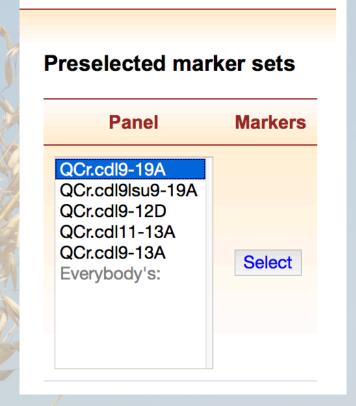
Tutorial 5: Creating marker panels in T3/Oat

https://triticeaetoolbox.org/oat/

T3 marker panels

Marker panels are sets of preselected markers that help to make data selection in T3 easy

- Registered users can create their own private marker panels
- Custom marker panels are saved between T3 sessions
- Private marker panels can be made public upon request



Tutorial 5: Outline

- 1. Register/login
- 2. Selecting T3 markers
- 3. Creating a marker panel
- 4. Selecting a marker panel
- 5. Deleting or modifying a custom marker panel

Section 1: Register/login

- Navigate to the T3/Oat homepage at <u>https://triticeaetoolbox.org/oat/</u>
- Register and login to view additional items in the Select menu
 - My Line Panels
 - My Marker Panels

Contact Os

T3/Oat

Home Select - Analyze -Download - Curate - About T3 -Wizard (Lines, Traits, Trials) Lines by Properties ome: T3/Oat Qui Lines by Phenotype Logo Lines by Haplotype Curr Welcome to T3/Oat! Lines by Genotype Experiment Lines Mark My Line Panels T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by Traits Gabe Gusmini (PepsiCo) My Marker Panels Joe Lutz (General Mills) Traits and Trials Bruce Roskens (Grain Millers) Nicholas Tinker (AAFC) Quic Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

Section 2: Selecting T3 markers

First select the markers that you want to form your custom marker panel using either:

Select menu> Markers

or

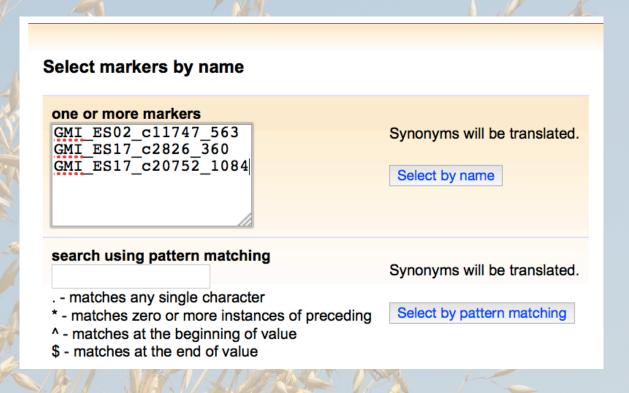
Select menu> Lines by Genotype Experiment

Contact Us T3/Oat Home Select - Analyze -Download - Curate - About T3 -Wizard (Lines, Traits, Trials) Lines by Properties ome: T3/Oat Qui _ines by Phenotype Logo Curr Welcome to T3/Oat! Lines by Genotype Experiment Lines Mark My Line Panels T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by Traits Gabe Gusmini (PepsiCo) My Marker Pa<u>nels</u> Joe Lutz (General Mills) Bruce Roskens (Grain Millers) Traits and Trials Nicholas Tinker (AAFC) Markers

Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

Section 2: Selecting T3 markers

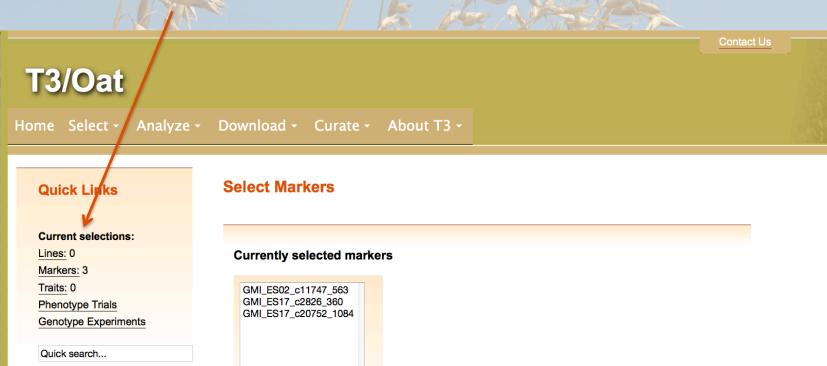
For example, select markers by name using the "Select Markers" tool



If you are unsure of the exact marker name, you can search using a name fragment combined with wildcard values in the "search using pattern matching" window

Section 2: Selecting T3 markers

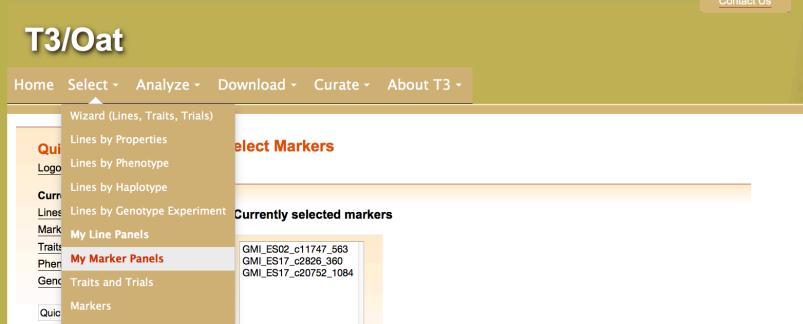
- Your marker selection will be summarized in the "Current selections" portion of the T3 side panel
- Clicking the "Markers" link will take you back to the "Select Markers" tool



Section 3: Creating a marker panel

To create your marker panel

Choose the Select menu> My Marker Panels



Section 3: Creating a marker panel

- Your currently selected markers will be displayed in the "Create a Marker Panel" window
- You can manually remove markers from your selection using the "Deselect highlighted markers" option

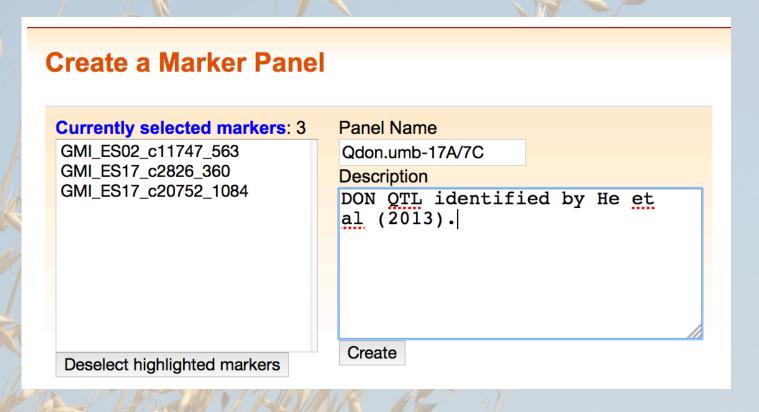
Contact Us

T3/Oat Home Select - Analyze - Download - Curate - About T3 -**Quick Links** Create a Marker Panel Current selections: Currently selected markers: 3 Panel Name GMI ES02 c11747 563 Lines: 0 GMI ES17 c2826 360 Description Markers: 3 GMI ES17 c20752 1084 Traits: 0 Phenotype Trials Genotype Experiments Quick search... Create Deselect highlighted markers

What's New

Section 3: Creating a marker panel

Name your custom marker panel



The marker panel description is an optional field

Section 4: Selecting a marker panel

Your custom marker panels are private and appear in the "Select Markers" tool along with any available public marker panels.

Private marker panels can be made public upon request.

Preselected marker sets		
Panel	Markers	
Qdon.umb-17A/7C QCr.cdl9-19A QCr.cdl9lsu9-19A QCr.cdl9-12D QCr.cdl11-13A QCr.cdl9-13A Everybody's:	Choose set.	

Section 5: Deleting or modifying a custom marker panel

- Use the "My Panels" selection window to delete a custom panel
- It is not possible to modify existing marker panels, instead:
 - Select the marker panel using the "Select Markers" tool
 - Modify your marker selection
 - Delete the custom marker panel
 - Recreate the modified custom marker panel

My Panels			
Qdon.umb-17A/7C QCr.cdl9-19A QCr.cdl9Isu9-19A QCr.cdl9-12D Delete	Panel	Markers	Description
	Qdon.umb- 17A/7C	3	DON QTL identified by He et al (2013).
	QCr.cdl9-19A	9	Crown rust QTL identified by Babiker et al (2015).
	QCr.cdl9lsu9-19A	4	Crown rust QTL identified by Babiker et al (2015).
	QCr.cdl9-12D	4	Crown rust QTL identified by Babiker et al (2015).
	QCr.cdl11-13A	9	Crown rust QTL identified by Babiker et al (2015).
	QCr.cdl9-13A	2	Crown rust QTL identified by Babiker et al (2015).

Contact Us

Please contact us if you need help using T3/Oat

Contact Us

T3/Oat

Home Select → Analyze → Download → Manage → About T3 →

Quick Links

Login/Register

Current selections:

Lines: 0

Markers: All

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

What's New

February 2016

Genetic Maps

An expanded oat consensus map (50,668 markers) is now <u>available</u> in addition to the Framework Oat Consensus Map (7,202 markers) and the 12 component maps used

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by

- Gabe Gusmini (PepsiCo)
- Joe Lutz (General Mills)
- Bruce Roskens (Grain Millers)
- Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the Oat Global website.

T3/Oat is built using the database schema and software developed for The Triticeae Toolbox (T3). T3 is the web portal for wheat and barley data generated by the Triticeae Coordinated Agricultural Project (T-CAP), funded by the National Institute for Food and Agriculture (NIFA) of the US Department of Agriculture (USDA). More...

Participants: The templates and instructions for data submission are <u>here</u>. If your data are not totally public, please check the <u>Data Usage Policy</u>.

Data submission